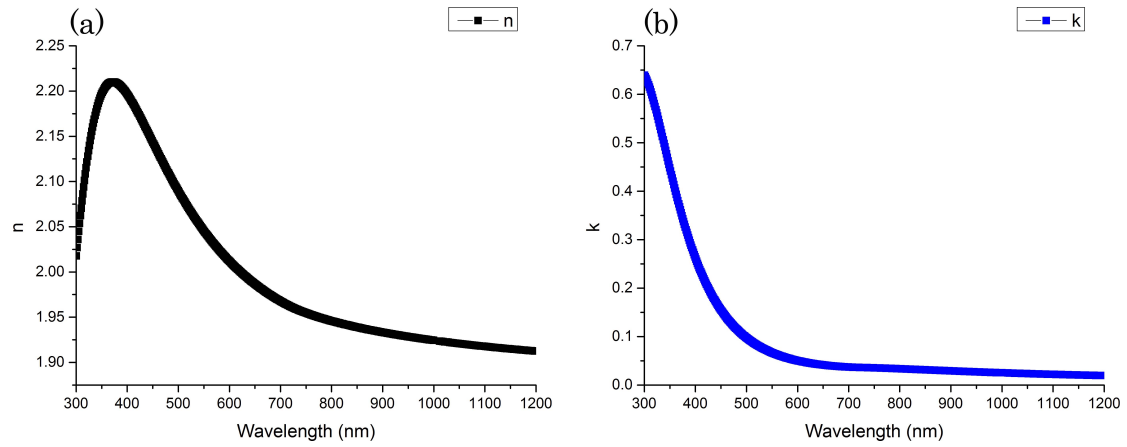
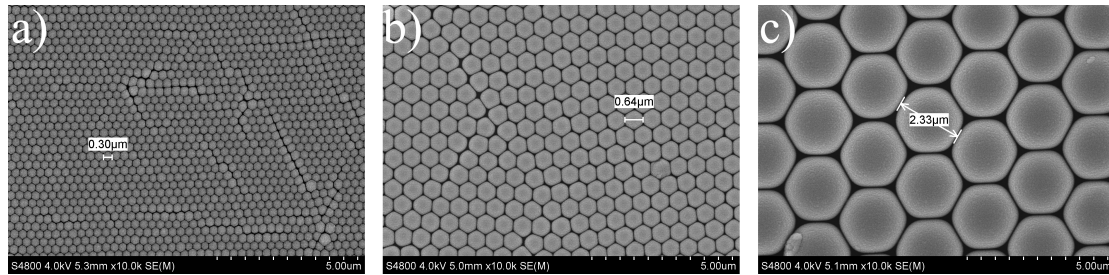


Additional material



The optical index of a-Si based on the ellipsometry measurement. (a) n , (b) k .



Measurements of the diameters of the PS spheres with three types of sizes. a) sub-wavelength (300 nm), b) mid-wavelength (640 nm) and c) infrared-wavelength (2300 nm)